

#### U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

BUREAU FOR DEMOCRACY, CONFLICT, AND HUMANITARIAN ASSISTANCE (DCHA)
OFFICE OF U.S. FOREIGN DISASTER ASSISTANCE (OFDA)

# ASIA – Disaster Preparedness and Mitigation Programs

Fact Sheet #1, Fiscal Year (FY) 2006

September 30, 2006

#### **Background**

People of the Asia–Pacific region are severely affected by natural hazards such as earthquakes, typhoons, floods, landslides, volcanoes, droughts, tsunamis, and wildfires. Asia's vulnerability is compounded by socio-economic conditions that steadily increase the impact of disasters. Demographic changes, urbanization, and environmental degradation have reduced the amount of habitable land available, forcing the settlement of hazard-prone, marginal lands, such as flood plains and steep slopes. In addition to natural disasters, civil crises and complex emergencies also impede development in the Asia–Pacific region. USAID/OFDA remains committed to assisting in the development of preparedness, mitigation, and emergency response capacities in the region for natural disasters and conflicts. Since 1995, USAID/OFDA has provided approximately \$45.3 million for ongoing preparedness and mitigation projects throughout the region. To date in FY 2006, USAID/OFDA has provided more than \$7.6 million for disaster preparedness and mitigation projects in the Asia–Pacific region.

## USAID/OFDA/Asia Preparedness and Mitigation Assistance Regional Programs

- Program for Hydro-Meteorological Risk Mitigation in Asian Cities (PROMISE): In September 2005, USAID/OFDA provided a grant to the Asian Disaster Preparedness Center (ADPC) for a new three-year phase of urban disaster mitigation activities entitled PROMISE. This program builds upon the activities of the Asian Urban Disaster Mitigation Program (AUDMP) through which pilot disaster preparedness projects were developed in targeted cities in Asia. PROMISE promotes hydro-meteorological disaster preparedness through demonstration projects in five highly vulnerable secondary urban centers in South and Southeast Asia, including Chittagong, Bangladesh; Hyderabad, Pakistan; Dagupan City, the Philippines; Kalutara, Sri Lanka; and Da Nang, Vietnam. All five target cities are rapidly growing urban areas with significant impacts from hydro-meteorological disasters within the past five years. Activities planned in the target cities include: preparedness and mitigation action planning workshops; hazard mapping and vulnerability assessments; the establishment of community-based early warning mechanisms; training and capacity building for risk-based urban land use planning; piloting community-based flood forecasting and warning systems; developing city-level disaster management information system and public awareness and advocacy campaigns; and the facilitation of micro-credit enterprises as part of pre-disaster relief packages to promote proper construction and improve resistance of houses to disasters. Total PROMISE funding since FY 2005 is \$1,000,000......FY 2006 \$500,000
- Pacific Islands Disaster Assistance Program (PDAP): USAID/OFDA has supported PDAP implemented by The Asia Foundation (TAF) since 1995. The objectives of the program are to: improve the capacity and performance of local and national disaster management agencies and individuals; develop and adapt training materials relevant to the region; and strengthen the capacity of South Pacific nations to organize and conduct disaster management courses. The Cook Islands, Fiji, Kiribati, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, and Vanuatu participated in the first phase of the program. The first phase worked to improved disaster management training in multiple South Pacific nations. From 2004 to 2008, Phase II continues activities begun in the initial countries, with the

- <u>Technical Assistance for Hydro-meteorological Disasters:</u> The U.S. National Weather Service and USGS, with support from USAID/OFDA, provides technical advice and guidance to MRC and ICIMOD on various hydro-meteorological issues including community-based flood mitigation, data collection systems using telecommunications for real-time data collection and transmission, and data sharing in trans-boundary river basins. Total project funding to date is \$170,000.

## South Asia Programs

- <u>India Earthquake Safety Initiative</u>: Implemented by GeoHazards International, the program conducts risk assessments and risk reduction activities in 20 of India's most earthquake-prone urban areas, and implements mitigation activities in 5 of those areas. This program, co-funded by USAID/OFDA and USAID/India, began in September 2002 and continued until October 2005. Total USAID/OFDA funding to date is \$650,000.
- <u>Incident Command System (ICS) Training</u>: Co-funded by USAID/OFDA and USAID/India through an interagency agreement with the U.S. Forest Service, this capacity-building program provides ICS training and simulation exercises at the national and state levels in India and the region. The program also provides technical assistance and training to government and non-government disaster managers to assist them in developing coordinated disaster response planning. The second phase, which began in 2002, will continue through September 2006. To date, USAID/OFDA has provided \$1,706,712 to support the program.
- Regional Flood Forecasting: Since November 2001, USAID/OFDA has supported technical assessments and forums that bring together decision-makers and technical personnel from the Hindu Kush-Himalayan region to promote collaboration and share information related to flood management, flood early warning systems, and broader transboundary water issues. ICIMOD, based in Kathmandu, Nepal, hosts the forums. Afghanistan, Bangladesh, Bhutan, Burma, China, India, Nepal, and Pakistan participate in the program. In FY 2006, USAID/OFDA provided additional support to ICIMOD to strengthen community involvement and improve understanding of flash floods, forecasts, and

- Community Flood Monitoring and Forecasting in Bangladesh: Implemented by Riverside Technology Inc., this five-year USAID/OFDA project supports a community-based approach for flood monitoring and forecasting to reduce the vulnerability of communities living in flood plains and mitigate future flood damage in Bangladesh. The project began in September 2002 and ends in September 2007. Total funding to date is \$576,977.
- Kathmandu Valley Earthquake Risk Management Project: NSET in Kathmandu, Nepal, works with the Government of Nepal, NGOs, schools, and local communities to increase earthquake awareness and preparedness by coordinating and monitoring the long-term earthquake risk reduction plan for the Kathmandu Valley. The project began in September 2000 and will continue through August 2006.

- Technical Assistance for the Development of the Pakistan National Seismic Network (PNSN): USAID/OFDA is providing funding to USGS to assist the Government of Pakistan (GOP) in establishing a new seismographic network of stations in and around earthquake-prone cities in Pakistan. At the request of the Pakistan Meteorological Department's, USGS is providing technical expertise to assist in the deployment of a national seismic network. The USGS task is advisory, including training of personnel, recommendations for site selection, specification of instruments, suggestions for methods of data transmission, data processing at a central location, and other issues of seismic-network design. This cooperation will aid in the construction of a critical national resource for the Pakistani population in the event of future natural disasters such as those that have occurred in recent years......FY 2006 \$66,263

#### Southeast and East Asia Programs

- Flood Early Warning Systems in the Mekong River Basin: This activity is implemented by MRC, an intergovernmental river basin organization based in Vientiane, Laos. In January 2003, USAID/OFDA and MRC began an innovative demonstration project to strengthen warnings to communities most at-risk to floods. The project works with the most flood-vulnerable communities in Cambodia to develop useful and understandable flood information for these communities. In addition, the project develops tools, methods, and protocols—with the help of community-based implementing partners—to enable flood-vulnerable populations to effectively prepare and respond to MRC flood information. This five-year program began in January 2003 and ends in December 2007. Total funding to date is \$1,229,855.

  FY 2006 \$275,000
- <u>Climate Forecast Applications</u>: This project is a follow-up initiative to the 1998-2003 "El Niño" related Extreme Climate Events Program. The Climate Forecast Applications project, implemented by the ADPC, strengthens the national capabilities of Indonesia and the Philippines to manage and reduce the impacts of climate fluctuations through targeted demonstration projects and community participation. The project develops decision support tools and capacities to reduce vulnerability to climate variability at the community level and mobilize communities to utilize the

- Flood Proofing for Households in the Mekong Delta Vietnam: USAID/OFDA funded the U.N. Development Program (UNDP) from June 2000 through December 2004 to implement a comprehensive flood preparedness program in Quang Binh, Quang Tri, Thua Thien-Hue, Da Nang, Quang Nam, Quang Ngai, and Binh Dinh provinces of central Vietnam. Working in collaboration with the Government of Vietnam's (GVN) Ministry of Agriculture and Rural Development, the program included: 1) training of disaster officials and the affected populations on the use of flood mapping to reduce loss of life, economic consequences, and disruption of livelihoods; 2) implementation of river flood alert systems in three river basins in central Vietnam; and 3) a television and radio flood disaster warning system at the national level and in three provinces of Vietnam. A follow-on program, flood proofing of homes in the poorest flood-prone villages in the Mekong Delta, was initiated in September 2005 and will continue through October 2006. Total project funding to date for both programs is \$1,394,250.
- Coastal Storm Early Warning System in Vietnam: USAID/OFDA provides funding to UNDP, working in collaboration with the GVN's Ministry of Agriculture and Rural Development, for the implementation of a radio-based coastal storm warning system. Using radio broadcasts, the project will provide early warnings for fishing boats up to 65 miles offshore and for 25 coastal provinces of Vietnam. The NOAA National Weather Service assisted the GVN with the design of the storm warning system. UNDP is working with the GVN to design community-based disaster preparedness training for subsistence fishing populations at the commune and village levels. This project began in May 2001 and was completed in December 2005. Total project funding to date is \$1,440,000.

- Avian Influenza Preparedness: Since December 2003, 10 Asian countries have reported outbreaks of the "H5N1" Avian Influenza virus, and 125 people have died in Indonesia, Vietnam, Cambodia, and Thailand. In FY 2004, USAID/OFDA provided \$250,000 to the U.N. World Health Organization (WHO) to support Avian Influenza containment activities in the region. In FY 2005, USAID/OFDA pre-positioned 10,000 sets of personal protective equipment (PPE) in the countries most at risk—Cambodia, Thailand, Laos, Vietnam, and Indonesia. In FY 2006, USAID/OFDA provided funding to the American Red Cross to facilitate, in cooperation with host-country Red Cross Societies, Avian Influenza preparedness and response workshops in Cambodia and China. The workshops brought together Red Cross staff and volunteers from throughout the respective countries, as well as government officials,

- <u>Drought Preparedness</u>: In FY 2006, USAID/OFDA provided \$700,000 to CARE for drought preparedness activities in Cambodia and East Timor. The goal of this program is to promote target communities' capacity in these countries to undertake community-based preparedness planning while also developing expertise in effective low-cost and innovative drought mitigation and preparedness technologies. The total cost of the project will be \$1,200,000.
   FY 2006 \$700,000

### USAID/OFDA FY 2006 Preparedness and Mitigation Assistance by Sector

Project Name	Hydro-Met	Earthquake/ Volcanoes	Health	Conflict	Multi- Hazard
PROMISE	\$500,000				
PEER, Phase II					\$2,290,336
Pacific Islands Disaster Assistance					\$544,943
Program					Ψ344,943
Asia Flood Network	\$500,000				
Volcano Disaster Assistance Project		\$465,000			
Regional Flood Forecasting	\$165,710				
Kathmandu Valley Earthquake Preparedness		\$145,078			
Emergency Flood Preparedness in Bangladesh	\$100,013				
Drought Preparedness in India and Pakistan	\$400,000				
Technical Assistance to PNSN		\$66,263			
Mekong River Basin Flood Early Warning	\$275,000				
Climate Forecast Applications	\$325,000				
Conflict Preparedness in Philippines				\$100,000	
Preparedness at Mt. Mayon volcano		\$17,600			
Preparedness at Mt. Merapi volcano		\$50,000			
Indonesia Emergency Preparedness through IMC/Ambulan 118			\$450,000		
Avian Influenza Preparedness			\$130,000		

Drought Preparedness	\$700,000				
Private Sector Role for Disaster Assistance in China					\$350,000
U.S./ Japan Community-based					\$74.908
Preparedness					\$74,908
Total: \$7,649,851	\$2,965,723	\$743,941	\$580,000	\$100,000	\$3,260,187

## **Total Cost of Active Programs to Date**

Project Name	Hydro-Met	Earthquake/ Volcanoes	Health	Conflict	Multi- Hazard
AUDMP	\$500,000				\$9,453,800
PROMISE	\$500,000				
PEER		\$5,889,395			\$3,599,059
Pacific Island Nations Disaster					\$3,604,084
Management Training Program					\$5,004,064
Asia Flood Network	\$2,329,927				
Technical Assistance for	\$170,000				
Hydrometeorological Disasters	\$170,000				
Volcano Disaster Assistance Project		\$2,965,000			
India Earthquake Safety Initiative		\$650,000			
Incident Command System Training					\$1,706,712
Regional Flood Forecasting	\$416,570				
Flood Forecasting in Bangladesh	\$576,977				
Kathmandu Valley Earthquake		\$796,633			
Preparedness		\$790,033			
Bangladesh Emergency Flood	\$200,013				
Preparedness	\$200,013				
Drought Preparedness in India and	\$400,000				
Pakistan	\$400,000				
Technical Assistance to PNSN		\$66,263			
Mekong River Basin Flood Early	\$2,229,855				
Warning	\$2,229,633				
Climate Forecast Applications	\$2,373,863				
Vietnam Flood Early Warning	\$1,394,250				
Vietnam Coastal Storm Early Warning	\$1,440,000				
Philippines Conflict Preparedness				\$1,100,000	
Preparedness at Mt. Mayon		\$17,600			
Preparedness at Mt. Merapi		\$50,000			
Indonesia Preparedness through			\$375,000		\$825,000
IMC/Ambulan 118					\$623,000
Avian Influenza Preparedness			\$621,450		
Drought Preparedness	\$700,000				
Promoting Private Sector Role for					\$350,000
Disaster Assistance in China					\$550,000
U.S./Japan Community-based					\$74,908
Preparedness					φ/ <del>4</del> ,500
Total: \$45,376,359	\$13,231,455	\$10,434,891	\$996,450	\$1,100,000	\$19,613,563